

Name: _____
Student ID: _____

Quiz 9

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) §7.2 #12 Find the volume of the solid obtained by rotating the region bounded by the given curves about the specified line.

$$y = x, y = \sqrt{x} \quad \text{about } x = 2$$

Question 2. (5 marks) §7.3 #22 Set up but do not evaluate, an integral for the volume of the solid obtained by rotating the region bounded by the given curves about the specified axis

$$y = x, y = 4x - x^2 \quad \text{about } x = 7$$